

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P734141

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-SQR-B2750-W2D-CA125-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

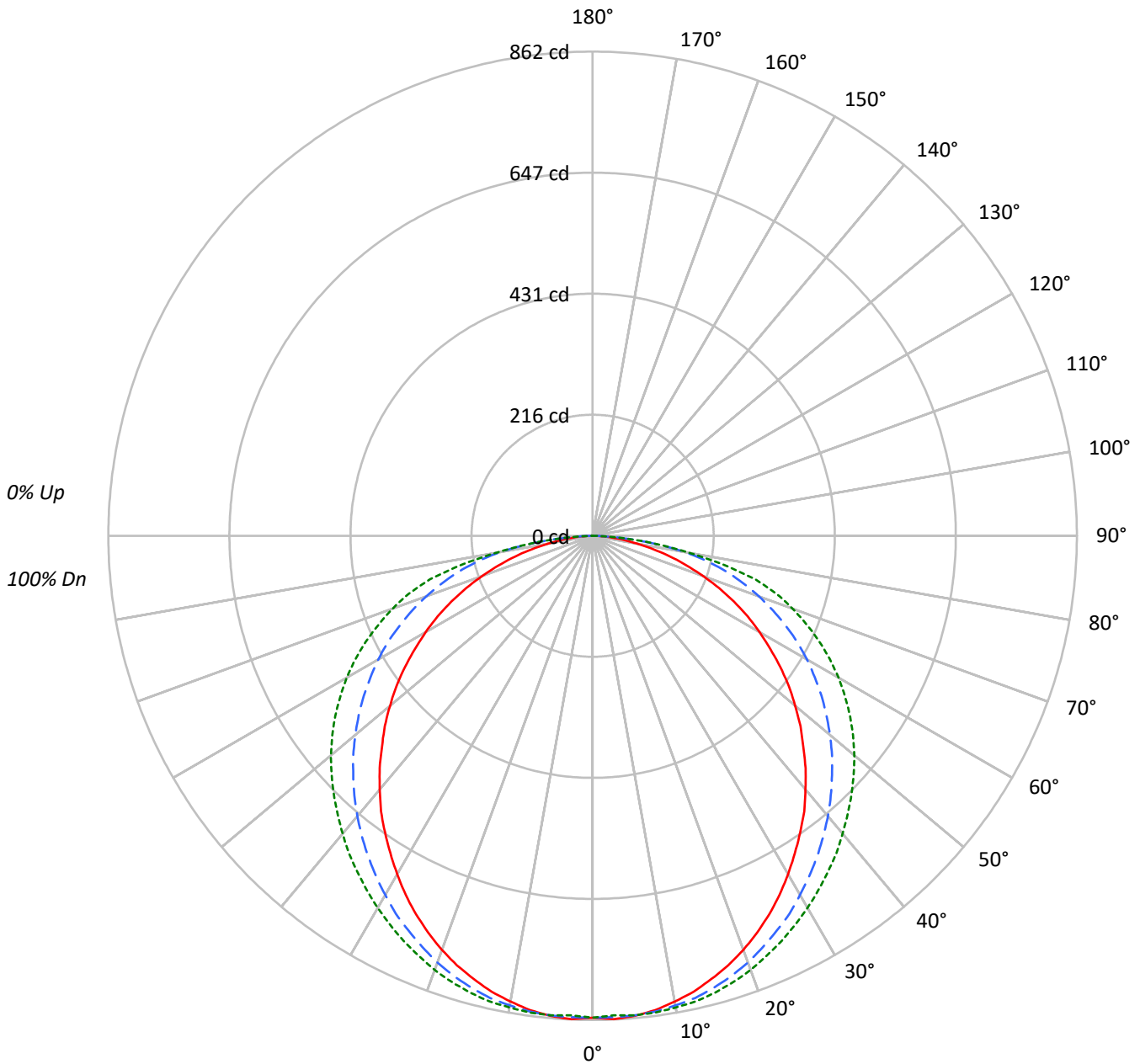
Lumens per Lamp: N/A
Luminaire Lumens: 2684.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1211	1211	1211
5°	1215	1214	1214
10°	1207	1217	1222
15°	1194	1217	1230
20°	1178	1214	1235
25°	1158	1208	1239
30°	1134	1203	1247
35°	1110	1200	1258
40°	1086	1200	1275
45°	1058	1203	1300
50°	1033	1210	1335
55°	1003	1223	1376
60°	968	1243	1426
65°	926	1267	1486
70°	860	1299	1562
75°	778	1344	1634
80°	655	1347	1404
85°	502	1019	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.0
10°-20°	234.3	8.7
20°-30°	355.9	13.3
30°-40°	432.9	16.1
40°-50°	460.9	17.2
50°-60°	439.0	16.4
60°-70°	367.1	13.7
70°-80°	244.8	9.1
80°-90°	67.7	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	671.6	25.0
0°-40°	1104.5	41.2
0°-60°	2004.4	74.7
0°-90°	2684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	858	853	857	857	857	81
15°	817	819	833	839	842	230
25°	744	753	776	789	796	342
35°	644	663	697	720	730	403
45°	530	558	603	636	652	410
55°	408	443	497	541	559	364
65°	277	318	379	426	445	274
75°	143	188	246	288	300	151
85°	31	58	63	62	63	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.9	857.9	857.9	857.9	857.9
2.5°	861.5	855.2	857.9	857.9	854.4
5°	857.9	852.6	857.1	857.1	857.1
7.5°	851.8	847.3	854.4	856.2	856.2
10°	842.0	840.3	849.1	851.8	852.6
12.5°	831.4	830.5	842.9	846.4	849.1
15°	817.1	819.0	833.1	839.3	842.0
17.5°	802.1	805.6	821.6	830.5	833.1
20°	784.4	789.7	808.4	817.1	822.5
22.5°	764.9	772.9	792.4	802.9	809.2
25°	743.6	753.3	775.5	788.8	795.9
27.5°	720.6	733.0	758.7	773.7	780.8
30°	695.7	709.9	738.3	756.1	764.9
32.5°	670.0	686.8	717.9	737.4	748.0
35°	644.3	663.0	696.6	719.7	730.3
37.5°	618.7	637.2	674.5	699.3	712.6
40°	589.4	611.5	651.5	678.9	692.3
42.5°	561.1	584.9	627.5	657.6	671.9
45°	530.0	558.4	602.6	636.4	651.5
47.5°	501.6	530.0	577.9	613.4	630.2
50°	470.6	500.7	551.3	590.3	608.1
52.5°	440.5	471.6	524.7	566.4	584.1
55°	407.8	443.1	497.2	540.7	559.2
57.5°	374.9	413.0	468.8	514.1	532.7
60°	343.0	381.9	440.5	485.7	505.2
62.5°	311.1	350.0	411.2	457.3	475.9
65°	277.4	318.1	379.3	426.3	445.0
67.5°	243.7	286.2	347.4	394.4	412.1
70°	208.3	253.5	314.7	360.8	378.5
72.5°	175.5	220.7	280.9	326.2	343.0
75°	142.7	187.9	246.4	288.1	299.6
77.5°	110.8	156.0	208.3	235.8	238.4
80°	80.6	123.2	165.7	173.7	172.8
82.5°	54.0	92.1	114.4	115.2	117.8
85°	31.0	57.6	62.9	62.1	62.9
87.5°	12.4	20.4	17.7	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)